

MANLEY GAS TESTING, INC.

P.O. DRAWER 193
OFFICE (432) 367-3024

FAX (432) 367-1166

ODESSA, TEXAS 79760
E-MAIL: MANLEYGAST@AOL.COMCHARGE..... 150 - 0
REC. NO. 1
TEST NUMBER.. 25467DATE SAMPLED..... 10-31-22
DATE RUN..... 11-03-22
EFFEC. DATE..... 11-01-22

STATION NO. ... 06512999

PRODUCER DURANGO MIDSTREAM

SAMPLE NAME.... LOBO INLET

TYPE: SPOT

RECEIVED FROM.. FRONTIER FIELD SERVICES LLC - MALJAMAR

FLOWING PRESSURE 48.0 PSIA

FLOWING TEMPERATURE 61 F

SAMPLED BY: DD

CYLINDER NO. ...

FRACTIONAL ANALYSIS
CALCULATED @ 14.650 PSIA AND 60F

	MOL%	GPM (REAL)
HYDROGEN SULFIDE...	0.160	
NITROGEN.....	2.708	
CARBON DIOXIDE.....	1.139	
METHANE.....	70.292	
ETHANE.....	13.985	3.735
PROPANE.....	6.958	1.914
ISO-BUTANE.....	0.838	0.274
NOR-BUTANE.....	2.002	0.631
ISO-PENTANE.....	0.502	0.184
NOR-PENTANE.....	0.505	0.183
HEXANES +.....	0.911	0.397
TOTALS	100.000	7.318

H2S PPMV = 1600

'Z' FACTOR (DRY) = 0.9958

'Z' FACTOR (WET) = 0.9954

CALC. MOL. WT. = 23.09

..CALCULATED SPECIFIC GRAVITIES..

REAL, DRY 0.8002

REAL, WET 0.7975

..CALCULATED GROSS HEATING VALUES..

BTU/CF - REAL, DRY 1314

BTU/CF - REAL, WET 1291

DISTRIBUTION AND REMARKS:

N

ANALYZED BY: JT
** R **APPROVED: 

MANLEY GAS TESTING INC.
120 DOCK ROAD - ODESSA, TEXAS-432-367-3024

A SAMPLE OF LOBO INLET 10-31-22

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CAPILLARY EXTENDED
C-6+ ANALYSIS
(NORMALIZED TO 100%)

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PAGE NO. 1

COMPONENT -----	MOL% -----	WT% -----
NEOHEXANE	0.352	0.332
2,3DMC4+CYC5	5.271	4.335
2MPENTANE	11.638	10.997
3MPENTANE	7.130	6.737
N-HEXANE	15.453	14.609
2,2 DMPENTANE	0.179	0.196
MCYCLOPENTANE	11.947	11.025
2,4 DMPENTANE	0.000	0.000
2,2,3 TMBUTANE	0.049	0.054
BENZENE	4.211	3.607
3,3 DMPENTANE	0.032	0.035
CYCLOHEXANE	7.986	7.370
2MHEXANE	2.784	3.059
2,3 DMPENTANE	1.100	1.208
3MHEXANE	1.830	2.011
DIMCYCPENTANES(GROUPED)	4.068	4.380
N-HEPTANE	3.988	4.381
MCYCLOHEXANE	7.296	7.855
2,2DMHEXANE	0.431	0.539
2,3,3TMPENTANE	0.000	0.000
TOLUENE	5.185	5.239
2,3DMHEXANE	0.098	0.123
2M3EPENTANE	0.041	0.051
2MHEPTANE	1.381	1.729
4MHEPTANE	0.082	0.103
3,4DMHEXANE	0.657	0.823
3MHEPTANE	0.657	0.823
TRIMCYCPENTANES(GROUPED)	0.097	0.118
DIMCYCHEXANES(GROUPED)	0.915	1.126
N-OCTANE	1.140	1.428
2,3,5TRIMHEXANE	0.065	0.091
2,2,4TRIMHEXANE	0.131	0.184
2,2DIMHEPTANE	0.026	0.036
2,2,3TRIMHEXANE	0.048	0.068
2,5DIMHEPTANE	0.000	0.000
I-NONANE	0.000	0.000
2,4DIMHEPTANE	0.011	0.015
E-CYCHEXANE	0.135	0.166
3,3DIMHEPTANE	0.054	0.077
2,6DIMHEPTANE	0.015	0.021
E-BENZENE	0.032	0.037
2,3DIMHEPTANE	0.014	0.020
M-XYLENE	0.233	0.271
P-XYLENE	0.073	0.085
3,4DIMHEPTANE	0.067	0.094
3EHEPTANE	0.086	0.121

MANLEY GAS TESTING INC.
120 DOCK ROAD - ODESSA, TEXAS-432-367-3024

A SAMPLE OF LOBO INLET 10-31-22

CAPILLARY EXTENDED
C-6+ ANALYSIS
(NORMALIZED TO 100%)

PAGE NO. 2

COMPONENT	MOL%	WT%
4MOCTANE	0.086	0.121
3MOCTANE	0.040	0.056
O-XYLENE	0.046	0.054
IC4CYCPENTANE	0.024	0.033
N-NONANE	0.187	0.263
I-DECANE	0.044	0.069
1E1MCYC6	0.033	0.046
IC3BENZENE	0.090	0.118
2,3DMOCTANE	0.246	0.383
3EOCTANE	0.676	1.054
NC4CYCC6	0.040	0.061
NC3BENZENE	0.124	0.163
M+P E-TOLUENE	0.221	0.291
O-E-TOLUENE	0.154	0.203
2,2DMOCTANE	0.155	0.242
TERTBUTYLBENZENE	0.030	0.044
1,3,5TMBENZENE	0.031	0.041
3,6DMOCTANE	0.000	0.000
IC4BENZENE	0.176	0.259
N-DECANE	0.183	0.286
UNKNOWN C-6'S	0.000	0.000
UNKNOWN C-7'S	0.000	0.000
UNKNOWN C-8'S	0.026	0.033
UNKNOWN C-9'S	0.320	0.452
UNK C10'S THRU C14'S	0.080	0.149
UNK C15'S THRU C16'S	0.000	0.000
UNK C17'S THRU C20'S	0.000	0.000
TOTAL	100.000	100.000

COMPONENT GROUPINGS (PARAFFINS-NAPTHENES-AROMATICS)

	MOL%	WT%	* C6+ CHARACTERIZATION
TOTAL C-6'S	63.988	59.012	MOL.WEIGHT = 91.197
TOTAL C-7'S	26.511	28.418	SP.GRAVITY = 3.1488
TOTAL C-8'S	6.044	7.509	BTU/FT3(DRY) = 4883.680
TOTAL C-9'S	1.827	2.514	BTU/FT3(WET) = 4799.582
TOTAL C-10'S	1.550	2.398	CU.FT./GAL = 25.293
TOTAL C-11 THRU C-14	0.080	0.149	GAL/CU.FT. = 0.039537
TOTAL C-15 THRU C-16	0.000	0.000	MOL% C6+ AROMATICS = 10.606
TOTAL C-17 THRU C-20	0.000	0.000	
TOTAL	100.000	100.000	

Substituted Flare Volumes**Data Entry - New Mexico Flaring - Flare Event Indicators**

Report Run Date: 4/5/2023 9:26 AM

Date	EDDY, NM > Lobo CS > n. 16_Flare > Total Gas to Flare Substituted (mscf)	EDDY, NM > BKU CS > n. FL-1_Flare > Total Gas to Flare Substituted (mscf)	EDDY, NM > North Pen CS > n. FL- 1_Flare > Total Gas to Flare Substituted (mscf)
04/04/2023 12:00 AM	0	0	180.68
04/04/2023 1:00 AM	0	0	181.06
04/04/2023 2:00 AM	0	0	180.5
04/04/2023 3:00 AM	0	0	176.8
04/04/2023 4:00 AM	0	0	173.33
04/04/2023 5:00 AM	0	14.78	174.96
04/04/2023 6:00 AM	0	0	174.3
04/04/2023 7:00 AM	0	0	167.96
04/04/2023 8:00 AM	18.3	15.69	167.45
04/04/2023 9:00 AM	95.81	52.47	167.51
04/04/2023 10:00 AM	160.82	75.52	164.52
04/04/2023 11:00 AM	175.93	58.24	128.5
04/04/2023 12:00 PM	184.77	107.99	115.84
04/04/2023 1:00 PM	141.76	0	104.04
04/04/2023 2:00 PM	104.44	0	97.32
04/04/2023 3:00 PM	119.84	0	91.93
04/04/2023 4:00 PM	152.03	0	93.47
04/04/2023 5:00 PM	195	52.25	151.69
04/04/2023 6:00 PM	201.41	58.5	193.65
04/04/2023 7:00 PM	211.95	0	148.58
04/04/2023 8:00 PM	172.35	0	148.01
04/04/2023 9:00 PM	62.71	0	140.65
04/04/2023 10:00 PM	48.81	0	121.04
04/04/2023 11:00 PM	4.16	0	116.58

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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 204399

DEFINITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 204399
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: • this application's operator, hereinafter "this operator"; • venting and/or flaring, hereinafter "vent or flare"; • any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms"; • the statements in (and/or attached to) this, hereinafter "the statements in this"; • and the past tense will be used in lieu of mixed past/present tense questions and statements.
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QUESTIONS

Action 204399

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 204399
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.	
Incident Well	Unavailable.
Incident Facility	[fAPP2123032826] Lobo Compressor Station

Determination of Reporting Requirements Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.	
Was this vent or flare caused by an emergency or malfunction	No
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a vent or flare event	Yes, major venting and/or flaring of natural gas.
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.	
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No
Was the vent or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	70
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	1
Oxygen (O2) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.	
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 204399

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 204399
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/05/2023
Time vent or flare was discovered or commenced	08:00 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	16

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure Gas Plant Natural Gas Flared Released: 2,050 Mcf Recovered: 0 Mcf Lost: 2,050 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	High line pressures caused equipment to shutdown for safety purposes and protection of the equipment. Site not manned 24 hours so operator could not provide any immediate solutions
Steps taken to limit the duration and magnitude of vent or flare	Restarted units and resumed normal operations as soon as practical
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Equipment shutdowns due to high suction pressure occurs to prevent damage to equipment. Reoccurrence is likely when inlet is pressured up beyond equipment tolerance level.

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ACKNOWLEDGMENTS

Action 204399

ACKNOWLEDGMENTS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 204399
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
☒	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
☒	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
☒	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

Action 204399

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 204399
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
mtaylor	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	4/5/2023